Cubic spline fit

- $S_0(x) = 1.00 + 4.50x + 3.0x^2 + 0.5x^3$
- $S_1(x) = 0.0 + 1.5x + 0.00x^2 + -0.50x^3$
- $S_2(x) = 0.0 + 1.5x + 0.00x^2 + -0.50x^3$
- $S_3(x) = -1.00 + 4.50x + -3.00x^2 + 0.50x^3$
- $y = \sin\left(\frac{2x}{\pi}\right)$
- Data points